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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,458	09/20/2004	Toshiharu Furukawa	BUR920030181US1	5457
44152 7590 06/16/2008 GREENBLUM & BERNSTEIN, P.L.C.			EXAMINER	
1950 ROLAND	CLARK DRIVE	CHEA, THORL		
RESTON, VA 20191			ART UNIT	PAPER NUMBER
			1795	
			NOTIFICATION DATE	DELIVERY MODE
			06/16/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gbpatent@gbpatent.com pto@gbpatent.com

	Application No.	Applicant(s)				
Office Action Comments	10/711,458	FURUKAWA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Thorl Chea	1795				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 27 Fe	bruarv 2007.					
	<u> </u>					
<i>i</i>	/ _					
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-20 is/are pending in the application.						
·- · · · · · · · · · · · · · · · · · ·	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) <u>17-20</u> is/are allowed.						
6)⊠ Claim(s) <u>1-16</u> is/are rejected.	·					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement					
	ciccion requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te				

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DETAILED ACTION

- 1. This office action is responsive to the communication on submitted on February 27, 2008; claims 1-20 are pending in this instant application.
- 2. The objection to the drawing is withdrawn in view of the argument and the drawing provide in the response on February 27, 2008.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1 is unclear. See for instance the language in the step of "forming and memorizing a first edge of the memory layer". The specification fails to point the different between the forming and memorizing. Therefore, the scope of protection between these two steps is either unclear or indefinite. The claiming of the "memory material" in "loop of sub-lithographic well-controlled image size of memory material" in claim 1 is unclear whether these material is the material forming the memory layer or otherwise. There is no antecedent basis for the term "the memory layer" in claim 11. See claim 11 line 2 which recites "a memory material", while lines 4-6 recites the "memory layer". Therefore, there is an inconsistency between the languages previously recited. The scope of the protection sought for the underlying material" in claim 2, and the protective layer in claims 11, 13, 14 is indefinite since the specification fails to provide support for such claiming.

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5. Claims 17-20 are allowed.

Response to Arguments

6. Applicant's arguments filed February 27, 2008 have been fully considered but they are

not persuasive for the reason set fort above. The underlying material or the protective layer

presented in the claimed invention is not limited to the underlying oxide layer or the capping

layer presented in the argument. The claimed terminology presented in the claims is not

presented in the specification. Therefore, the scope thereof cannot be determined in view of the

specification disclosure.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Thorl Chea whose telephone number is (571) 272-1328. The

examiner can normally be reached on 9 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Cynthia H. Kelly can be reached on (571)272-1526. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

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like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tch 2008-06-09

/Thorl Chea/ Primary Examiner, Art Unit 1795